

Do you have information to add? Which research needs are highest priority?
Take a moment to jot down a note or put a star by a priority area.

RESEARCH MATRIX ON PEST PLANTS IN FLORIDA

DATE: February 27, 2001

["in lit." : simply means see KAL/KCB i.d. manual or KAL/RKS control booklet for more info]

For more info on matrix, contact Kathy Burks, 850-487-2600

SPECIES	Environment Tolerance Screening	Reproduction: Sexual, Asexual	Modes of Dispersal	Impacts: T & E Spp., Plant, Animal	Impacts: Other Natives, Plant, Animal	Impacts: Community Structure	Impacts: Community Function	Control: Chem., Mech., Biological	Substitutes: Other Plants, Other Uses
<i>Ardisia crenata</i>	unpub. data, in lit., seasonal, UF-Kitajima	unpub. data, some in lit., UF-Fox	obs. data, in lit., UF- Fox	obs. data, <i>Justicia</i>	unpub. data, Dozier	unpub. data - new layer UF-Fox	unpub. data - shading, recruitment	CHEM -unpub. data - BIPM	
<i>Ardisia elliptica</i>	in lit., unpub. data- ENP	in lit.	obs. data, in lit.			obs. in lit.		CHEM - in lit.	
<i>Asparagus densiflorus</i>	in lit.	in lit.	in lit.		obs. -displaced, in lit.	obs. - in lit.			
<i>Bischofia javanica</i>	in lit.	in lit.	in lit.		obs. data - in lit.	obs. data - in lit.´		CHEM - in lit.	
<i>Cinnamomum camphora</i>	some in lit.	sexual - in lit.		obs. - <i>Ziziphus</i>	shading? allelopathy?	obs. - see i.d. manual		CHEM - unpub., SJRWMD	
<i>Colocasia esculenta</i>	in lit., but need info on new cultivars	in lit. seed viability in Fla.?	some in lit. birds?		in lit.		changing water flow?	CHEM - unpub., FPS	
<i>Cupaniopsis anacardioides</i>	in lit.	in lit.	in lit.		in lit.	in lit.		CHEM - in lit., UF/BIPM/SFWMD	

<i>Dioscorea bulbifera</i>	in lit.	in lit., veg. - Argento	in lit.	obs. - BIPM		in lit.	obs.-shading, recruitment	CHEM - in lit. MECH- Argento	
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<i>Eichhornia crassipes</i>	in lit.	in lit.	in lit.		in lit.	in lit.	in lit.	in lit.	
<i>Eugenia uniflora</i>	in lit.	in lit.	in lit.			some lit.	in lit. - host for fruit fly	CHEM - in lit.	
<i>Hydrilla verticillata</i>	in lit., chem. toler.?, UF-Haller	in lit.	in lit.	obs. data - <i>Najas filifolia</i>	in lit. chem. treat. effects?	in lit.	in lit.	CHEM - need flowing water MECH - unpub. data, BIPM contr. BIO - UF-Charu.	
<i>Hygrophila polysperma</i>	in lit.	in lit., pdtn. in FL, UF-Sutton, Dingler?	in lit.		in lit.	in lit.		CHEM - UF- Sutton BIO - feas. - Cuda	
<i>Hymenachne amplexicaulis</i>	in lit. cold toler.?	in lit.	in lit. birds?		in lit.	density of marsh?	changing flow rates?	CHEM - ? obs. - not fire	
<i>Imperata cylindrica</i>	in lit.	in lit.; gen. diversity?	in lit.	obs. data - several	obs. -displace.; rate of spread?	obs. - dense cover		CHEM - in lit. MECH/CHEM- UF-MacDonald BIO - sheep; native insects? (Minno)	
<i>Lantana camara</i>	in lit.	in lit.	in lit.	in lit.	in lit.	in lit.	allelopathy - in lit.	CHEM - in lit. MECH - fire? BIO - no good	UF - Dehgan- sterility of cult.

<i>Ligustrum</i> <i>sinense</i>	obs. - in lit.	variegated cult.?	in lit.	obs. - <i>Ribes</i>	obs. - displace., in lit.	obs. -in lit.		CHEM - in lit. MECH - fire? BIO - UF-Cuda	
<i>Limnophila</i> <i>sessiliflora</i>	some lit. - see BIPM lit. review	see BIPM lit. review	see BIPM lit. review			displace. - see BIPM lit. review		CHEM - need better methods	
<i>Lonicera</i> <i>japonica</i>	in lit.	in lit.	in lit.	obs. - <i>Xantho- rhiza simplic.</i>	in lit.	in lit.		CHEM - need?	
<i>Lygodium</i> <i>japonicum</i>	some in lit., FAU-Volin	some obs., FAU-Volin	obs., in lit. FAU-Volin	obs. - <i>Hymeno- callis</i>	obs. - displace.	obs. - new layer	obs. - recruit.	CHEM - BIPM data MECH - not fire	
<i>Lygodium</i> <i>microphyllum</i>	some in lit. FAU - Volin	some in lit. FAU-Volin	obs. FAU-Volin	obs. - bromeliads	obs. - loss of habitat	some in lit.	some in lit. - crown fires	CHEM - UF/ BIPM/SFWMD MECH - FPS, Palm Beh Co. BIO - in progress	
<i>Lyngbya</i> spp.	USF-Cowell/ Bott	see algae lit.				see algae lit.	see algae lit.	CHEM - UF- DuBose	
<i>Melaleuca</i> <i>quinquenervia</i>	in lit. ecology, UF- Van	in lit.	in lit.		in lit.; below gr comp., UF- Comerford	in lit.	in lit.	CHEM - in lit. MECH - in lit. BIO - USDA-ARS	mulch, wood- BIPM/KFB
<i>Nandina</i> <i>domestica</i>	unpub. data UF-Cherry, acid soils?	unpub. data; in lit.	obs., in lit.	obs. - columbine, hydrangea	obs. - displace. UF-Cherry compet.	obs. - new layer		CHEM - in lit.	test cultivars?

<i>Nephrolepis</i> <i>cordifolia</i>	obs., see i.d. manual	in lit. hybridizing?	obs., in lit.		obs. - displace.	obs. - density		CHEM - ? MECH - fire? BIO - no good	
<i>Paederia</i> <i>foetida</i>	some in lit.	some in lit.	some in lit.	obs. - <i>Justicia</i> , <i>Pechuma ptil.</i>	obs. - displace.	obs. - density, new layer	recruitment?	CHEM -in prog MECH - fire BIO-feas. - ARS/ SWFWMD	

<i>Panicum</i> <i>repens</i>	in lit.	in lit.	in lit.		in lit. , displace.			CHEM - SFWMD/ UF-KAL	
<i>Pistia</i> <i>stratiotes</i>	in lit.	in lit.	in lit.		in lit.	in lit.	in lit.	in lit.	
<i>Pueraria</i> <i>montana</i>	in lit.	in lit., lots of seed in Fla.?	in lit.		in lit.	in lit.	in lit.	CHEM - in lit. BIO - sheep	
<i>Psidium</i> <i>cattleianum</i>	in lit.	in lit.	in lit.		in lit.	in lit.	in lit. - host for fruit fly	CHEM - in lit.	
<i>Rhodomirtus</i> <i>tomentosa</i>	in lit., UF - Stocker	UF - Stocker			obs. - in lit.	obs. - in lit.		CHEM - obs. MECH - in lit., Fire- UF-Stock.	
<i>Rhoeo</i> <i>spathacea</i>	in lit.	in lit.	birds?		in lit.	in lit.	obs. - recruit.	CHEM - ?	

<i>Ruellia</i> <i>brittoniana</i>	seedling req.'s, UF-Wilson	germin. rates, UF-Wilson	birds, need obs.	obs. - rare <i>Nymphaea</i>		obs. - displace.		CHEM - ?	
<i>Sapium</i> <i>sebiferum</i>	in lit.	in lit.	in lit.	adjacent hab.- <i>Foresteria</i> <i>godfreyi</i>		displace. - obs.		CHEM - in lit. UF-Hill (cut stump)	
<i>Scaevola</i> <i>sericea</i>	in lit. growth rate vs. native <i>Scaev.</i> ?	in lit.	in lit.	obs. - <i>S. plum.</i> , sea lavender	obs. - in lit.	obs. - in lit.		CHEM - in lit. MECH - in lit.	
<i>Schefflera</i> <i>actinophylla</i>	in lit., cold toler.?	in lit.	in lit.	obs. - scrub pinweed	obs. - palms	obs. - new layer epiphytes		CHEM - in lit. MECH - fire?	

<i>Schinus terebinthifolius</i>	some in lit.	in lit.	in lit.	obs. - beach plants	in lit.	in lit.	in lit. - allelopathy	CHEM - in lit. MECH - obs. BIO - UF-Cuda	
<i>Solanum tampicense</i>	in lit., UF - Fox	in lit., genetic div. - UF, Gallo-M.	obs.,need more		obs., UF - Fox	UF - Fox		CHEM - in lit.	
<i>Syzygium cumini</i>	in lit.	in lit.	in lit.		in lit.	in lit.	obs. - recruit.	CHEM - in lit. MECH - fire?	
<i>Tradescantia fluminensis</i>	in lit.	in lit., but need seed viability	dumping only? birds?		obs., some lit., in progr. - UF- McMillan	in lit.	obs., in lit. - recruit.	CHEM - ? MECH - in lit.	

Management Processes/ Multiple Species:

- ACOE, Palatka - native aquatic plant propagation & plant response studies
- BIPM/EPPC - expansion of sight-record data base for upland-invasive occurrences
- UF - germination screening protocols for new exotic plant introductions
- UF - expansion of APIRS to include upland-invasive literature
- UF - assessment instrument for IFAS-recommended exotic species
- WMDs/UF - standardized assessment of upland-invasive infestations for control-cost estimates

NOTES: